

CAPTURE ENERGY SAVINGS FROM INFREQUENTLY USED STAIRWELLS

Stairwells are lit 24 hours per day regardless of whether they are occupied. For stairwells that have high wattage light fixtures (T12s or T8s), 24-hour usage can result in a significant and unnecessary waste of electricity.

Bi-level stairwell fixtures from LaMar Lighting are easy to install and even easier to operate. The system is designed to provide safe, reliable, and efficient lighting.

The fixture installs just like any ordinary fluorescent fixture and has standby wattage consumption as low as eight watts using a one-light 25W T8 fixture. Both full and standby light levels from the fixture are designed to provide the proper amount of light required by local and national code officials.

Facility managers can select from a variety of fixture styles, one or two lamp configurations, and choose either 120 or 277 volts. Several step down ballast options are also available.

For building managers looking to maintain proper levels of lighting when stairwells are occupied, but wanting to save electricity when stairwells are not in use, the bi-level stairwell fixture technology is a smart choice.

BI-LEVEL STAIRWELL FIXTURE RESEARCH STUDY

WORKING WITH THE INTERNATIONAL FACILITIES MANAGEMENT ASSOCIATION (IFMA), THE BI-LEVEL FIXTURE TECHNOLOGY FROM LAMAR LIGHTING HAS BEEN INSTALLED IN FOUR CALIFORNIA SITES. PIER RESEARCHERS ARE MONITORING OCCUPANCY USE PATTERNS, ENERGY SAVINGS, AND INSTALLATION AND OPERATIONAL FACTORS. PRELIMINARY RESULTS INDICATE ENERGY SAVINGS OF 50 TO 80 PERCENT FOR STAIRWELL LIGHTING. FINAL STUDY RESULTS WILL BE AVAILABLE SPRING 2004.



LaMar Lighting Occu-smart Fixtures



LIGHTING CONTROL AND INCREASED PEACE OF MIND

Bi-level stairwell fixture technology provides peace of mind by offering standby lighting levels for safety and security when the space is unoccupied, and full light output when the space is occupied.

Features available include:

- High quality one- or two-lamp fixtures in 120V or 277V models.
- Linear ribbed acrylic lenses or prismatic lenses with linear reflective sides.
- High frequency, extremely sensitive ultra-sonic motion sensor mounted internally.
- Bi-level, step-down ballasts to 5, 10, or 33 percent of full light output depending on fixture configuration (i.e. two 4-ft T8s with step down to 10 percent reduces power from 62 Watts at full output to 13 Watts at standby).
- 100-hour lamp conditioning circuit to assure long lamp life.
- Adjustable dwell time at full-on from 15 seconds to 30 minutes.
- Vandal resistance or emergency operations options.
- Five-year factory warranty on all ballasts and sensor components.
- UL listed and IBEW union made fixtures.

INTERESTED?

Building owners, facility managers, contractors, design engineers, building code developers, and utility staff will benefit from information on bi-level stairwell lighting in their future efforts.

Key next steps include:

- Identifying buildings with over-lit high wattage stairwell fixtures.
- Contacting local utilities to find potential incentives to offset initial cost.
- Publicizing energy savings information.
- Making this technology the standard for new stairwells.

To purchase this specific bi-level fixture technology, visit the LaMar Lighting web site: www.occusmart.com.

This project was part of the PIER Lighting Research Program. To view the b-level stairwell fixture study information, as well as other current research activities, visit <http://www.energy.ca.gov/pier>.

Additional information about this technology can be found on the following web sites

- PIER Lighting Research Project #5.1 -- Bi-Level Stairwell Fixture
http://www.archenergy.com/lrp/lightingperf_standards/project_5_1_impacts.htm
- Lawrence Berkeley National Laboratory
<http://lighting.lbl.gov/>
- LaMar Lighting Occu-Smart System:
<http://www.occusmart.com/>



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BI-LEVEL STAIRWELL FIXTURES



APPROPRIATE LIGHT
LEVELS WHEN YOU
NEED IT IN BUILDING
STAIRWELLS

